PATENT ABSTRACTS OF JAPAN

(11)Publication number:

62-054710

(43)Date of publication of application: 10.03.1987

(51)Int.CI.

CO8F220/36 // CO9D 3/80

(21)Application number: 60-195038

(71)Applicant: KURARAY CO LTD

(22)Date of filing:

03.09.1985

(72)Inventor: FURUMIYA YUKIATSU

HIRAI KOJI

(54) URETHANE-MODIFIED ACRYLATE COMPOSITION

(57)Abstract:

PURPOSE: To obtain the titled composition excellent in flexibility, film properties, waterproofness, weathering resistance, etc., and suitable as, e.g., a binder of paints or magnetic tapes, by mixing a urethane-modified acrylate of a specified structure with a polymerizable monomer.

CONSTITUTION: The purpose urethane-modified acrylate composition is obtained by mixing a urethane-modified acrylate (A) of formula I (wherein R1 and R1' are each H or methyl, R2 and R2' are each a polyalcohol, R3 is an organic diisocyanate, R4 is a polyester polyol having groups of formulas II and III as structural components, m is 1W5 and I and n are each 1W3) with a polymerizable monomer (B) (e.g., styrene or methyl methacrylate). Component A is produced by using a polyester polyol, an organic diisocyanate (e.g., tolylene diisocyanate) and a hydroxyl group-containing (meth)acrylate (e.g., 2- hydroxyethyl acrylate) as starting materials.

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[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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